## PATENT COOPERATION TREATY.

From the INTERNATIONAL PRELIMINARY EXAMINING

To: LEE, Young-Pil		PCT	
The Cheonghwa Bldg., 1571-18 Seocho-dong, Seocho-gu, Seoul 137-874, Republic of KOREA		WRITTEN OPINION (PCT Rule 66)	
		Date of mailing (day/month/year) 23	FEBRUARY 2006 (23.02.2006)
Applicant's or agent's file reference  JL-21062-PCT		REPLY DUE within 1/2 months from the above date of mailing	
International application No. PCT/KR2003/002553	International filing date 25 NOVEMBER 2		Priority date(day/month/year)
International Patent Classification (IPC) (	or both national classifica	ation and IPC	
Applicant  CJ CORPORATION et al			
IV Lack of unity of invent  V Reasoned statement uncitations and explanation  VI Certain documents cite  VII Certain defects in the inventor of the inventor o	ting to the following item spinion with regard to now tion der Rule 66.2(a)(ii) with a consumption such stater ed anternational application in the international application by the international application of the international application of the international application at the international applicant eraction. The applicant eraction with a mendments unity to submit amendments unity to submit ame	regard to novelty, inventment  ation  may, before the expiration  re appropriate, by amend  s, see Rules 66.8 and 66.9  ents, see Rule 66.4  ents and/or arguments, sor, see Rule 66.6  n report will be establish	on of that time limit, request this Authority dments, according to Rule 66.3 gerale 66.4bis ned on the basis of this opinion.

Name and mailing address of the IPEA/KR

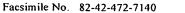


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## WRITTEN OPINION

International application No.

PCT/KR2003/002553

I. 1	Basis	of the o	pinion			
1.	With	regard t	to the elements of the international application:*			
	$\boxtimes$	the inte	rnational application as originally filed			
		the desc	cription:			
		pages	, as originally filed , filed with the demand			
		pages pages	, filed with the letter of			
		the clai	ms:			
	Ш	pages				
		pages pages	as amended (together with any statment) under Article 19, filed with the demand			
		pages	filed with the letter of			
		the dra	wings:			
		pages	as originally filed			
		pages pages	, filed with the letter of			
			nuence listing part of the description:			
		pages				
		pages pages	, filed with the letter of			
		Pages	<u> </u>			
2.	the	internati	to the language, all the elements marked above were available or furnished to this Authority in the language in which ional application was filed, unless otherwise indicated under this item.  Hents were available or furnished to this Authority in the following language English which is			
		the las	nguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).			
	$\boxtimes$		nguage of publication of the international application(under Rule 48.3(b)).			
		the la or 55.	nguage of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/3).			
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:					
		conta	ined inthe international application in printed form.			
		filed t	together with the international application in computer readable form.			
		furnis	shed subsequently to this Authority in written form.			
		furnis	shed subsequently to this Authority in computer readable form			
		interr The s	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the national applicationas as filed has been furinshed. tatement that the information recorded in computer readable form is identical to the written sequence listing has furnished.			
4.	П	The a	mendments have resulted in the cancellation of:			
	<b></b>		the description, pages			
			the claims, Nos.			
		$\overline{\Box}$	the drawings,sheet/fig			
5.			opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go not the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).			
*			t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to on as "originally filed."			

## WRITTEN OPINION

International application No.

PCT/KR2003/002553

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement		
Novelty (N)	Claims 4-7	YES
	Claims 1-3, 8	NO
Inventive step (IS)	Claims 4-7	YES
	Claims 1-3, 8	NO
Industrial applicability (IA)	Claims 1-8	YES
	Claims	NO

## 2. Citations and explanations

본원발명의 특허청구범위 재1항 내지 제3항. 화학식 1로 표시되는 티온 유효성분으로 화합물을 그의 무독성 염. 이런한 함유하는 해열, 갖는 약제학적 조성물을 청구하고 있으나, 본원발명의 출원일 이 전에 반포된 간행물인 약제학회지(2003, 제33권 제2호, 제105면 내지 제112면, 2003. 6. 21. 발행. 이하 '비교대상발명'이라 한다)에 본원발명의 화학식 1에 화합물인 / 4-(4-브로모페닐)-5-(4-메탄술포닐페닐)-[1,2]디티올-3-티온 포함되는 (실시예 40), 5-(4-메탄술포닐페닐)-4-토릴-[1,2]디티올-3-티온(실시예 41), (4-메탄줄포닐페닐)-4-메톡시페닐)-[1,2]디티올-3-티온(실시예 43)( 5-(4-메탄술 포닐페닐)-4-(2-트리플루오로메틸페닐)-[1,2]디티올-3-티온(실시예 44),) 4-(4-클 로로페닐)-5-(4-메탄술포닐페닐)-[1,2]디티올-3-티온(질지예 45),\ 4-(3,4-디클로 로페닐)-5-(4-메단줄포딜페딜)-[1,2]디티올-3-티온(실시예 46), \5-(4-메탄술포닐 페닐)-4-(2-니트로페닐)-[1.2]디티올-3-티온(실시예 54)[ 4-(2.4-디클로로페닐)-5-(4-메틴술포<u>닐페닐)-[1,2]</u>디티올-3-티온(실시예 58),\ 4-(2-플루오로<u>페날)-5-(</u>4-메탄술포닐페닐)-[1,2]디티올-3-티온(실시예 62) \_4-(2,4-디플루오로페딜)-5-(4-메탄술포닐페닐)-[1,2]디티올-3-티온(실시예 63), 4-(3,4-디플루오로페닐)-5-(4-메단술포닐페닐)-[1.2]디티올-3-티온(실시예 64)이 화합물 97/제109면) Table II) 등으로 기재되어 있으며, COX-2 저해제로서 항염증 효과가 있음이 공지되어 있는바 이러한 화합물은 비교대상발명의 화합물과 동일한 화합물이고 용도 청구하는 것으로서 상기 청구항들은 특허법 제29조제1항제2호의 규 동일한 용도를 정에 해당되어 특허받을 수 없으며. 이러한 화합물 이외의 화합물은 비교대상발명 의 화합물과 모핵이 동일하고 단지 치환기에 미차가 있으나 이러한 차이는 당업자 라면 용이하게 변경할 수 있는 정도라 인정되고, 또한 그 치환기의 차이로 인하여 본원발명의 화합물이 비교대상발명의 화합물에 비해 현저한 효과를 나타내는 것으 로 인정되지 아니하고 그 용도 역시 당업자가 비교대상발명으로부터 쉽게 생각할 있는 정도로 인정되므로 상기 청구항들은 본원발명이 속하는 기술분야에서 통 상의 지식을 가진 자가 비교대상발명으로부터 용이하게 발명할 수 있는 것으로서 특허법 제29조제2항의 규정에 해당되어 특허받을 수 없습니다.